

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/908,469

DATE: 10/15/2001
TIME: 16:14:37

Input Set : A:\P1093pl.txt
Output Set: N:\CRF3\10152001\H908469.raw

SEQUENCE LISTING

5 (1) GENERAL INFORMATION:
7 (i) APPLICANT: Baca, Manuel
8 Wells, James A.
9 Presta, Leonard G.
10 Lowman, Henry B.
11 Chen, Yvonne M.
13 (ii) TITLE OF INVENTION: ANTI-VEGF ANTIBODIES
15 (iii) NUMBER OF SEQUENCES: 131
17 (iv) CORRESPONDENCE ADDRESS:
18 (A) ADDRESSEE: Genentech, Inc.
19 (B) STREET: 1 DNA Way
20 (C) CITY: South San Francisco
21 (D) STATE: California
22 (E) COUNTRY: USA
23 (F) ZIP: 94080
25 (v) COMPUTER READABLE FORM:
26 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
27 (B) COMPUTER: IBM PC compatible
28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
29 (D) SOFTWARE: WinPatin (Genentech)
31 (vi) CURRENT APPLICATION DATA:
C--> 32 (A) APPLICATION NUMBER: US/08/908,469
C--> 33 (B) FILING DATE: 06-Aug-1997
34 (C) CLASSIFICATION:
36 (vii) PRIOR APPLICATION DATA:
37 (A) APPLICATION NUMBER: 08/833,504
38 (B) FILING DATE: 07-APR-1997
40 (viii) ATTORNEY/AGENT INFORMATION:
41 (A) NAME: Cui, Steven X.
42 (B) REGISTRATION NUMBER: 44,637
43 (C) REFERENCE/DOCKET NUMBER: P1093P1
45 (ix) TELECOMMUNICATION INFORMATION:
46 (A) TELEPHONE: 650/225-8674
47 (B) TELEFAX: 650/952-9881
48 (2) INFORMATION FOR SEQ ID NO: 1:
50 (i) SEQUENCE CHARACTERISTICS:
51 (A) LENGTH: 10 amino acids
52 (B) TYPE: Amino Acid
53 (D) TOPOLOGY: Linear
55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
57 Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn
58 1 5 10
60 (2) INFORMATION FOR SEQ ID NO: 2:
62 (i) SEQUENCE CHARACTERISTICS:
63 (A) LENGTH: 17 amino acids
64 (B) TYPE: Amino Acid

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```

65          (D) TOPOLOGY: Linear
67      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
69  Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe
70      1              5              10              15
72  Lys Arg
75  (2) INFORMATION FOR SEQ ID NO: 3:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 14 amino acids
79          (B) TYPE: Amino Acid
80          (D) TOPOLOGY: Linear
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
84  Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val
85      1              5              10
87  (2) INFORMATION FOR SEQ ID NO: 4:
89      (i) SEQUENCE CHARACTERISTICS:
90          (A) LENGTH: 11 amino acids
91          (B) TYPE: Amino Acid
92          (D) TOPOLOGY: Linear
94      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
96  Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
97      1              5              10
99  (2) INFORMATION FOR SEQ ID NO: 5:
101     (i) SEQUENCE CHARACTERISTICS:
102         (A) LENGTH: 7 amino acids
103         (B) TYPE: Amino Acid
104         (D) TOPOLOGY: Linear
106     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
108  Phe Thr Ser Ser Leu His Ser
109      1              5
111  (2) INFORMATION FOR SEQ ID NO: 6:
113     (i) SEQUENCE CHARACTERISTICS:
114         (A) LENGTH: 9 amino acids
115         (B) TYPE: Amino Acid
116         (D) TOPOLOGY: Linear
118     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
120  Gln Gln Tyr Ser Thr Val Pro Trp Thr
121      1              5
123  (2) INFORMATION FOR SEQ ID NO: 7:
125     (i) SEQUENCE CHARACTERISTICS:
126         (A) LENGTH: 123 amino acids
127         (B) TYPE: Amino Acid
128         (D) TOPOLOGY: Linear
130     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
132  Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly
133      1              5              10              15
135  Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
136              20              25              30
138  Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
139              35              40              45

```

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```

141  Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
142                      50                      55                      60
144  Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser
145                      65                      70                      75
147  Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
148                      80                      85                      90
150  Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
151                      95                      100                     105
153  Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr
154                      110                     115                     120

```

156 Val Ser Ser

159 (2) INFORMATION FOR SEQ ID NO: 8:

161 (i) SEQUENCE CHARACTERISTICS:

162 (A) LENGTH: 108 amino acids

163 (B) TYPE: Amino Acid

164 (D) TOPOLOGY: Linear

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

```

168  Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
169    1                      5                      10                      15
171  Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
172                      20                      25                      30
174  Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
175                      35                      40                      45
177  Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
178                      50                      55                      60
180  Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
181                      65                      70                      75
183  Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
184                      80                      85                      90
186  Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
187                      95                      100                     105
189  Ile Lys Arg

```

192 (2) INFORMATION FOR SEQ ID NO: 9:

194 (i) SEQUENCE CHARACTERISTICS:

195 (A) LENGTH: 123 amino acids

196 (B) TYPE: Amino Acid

197 (D) TOPOLOGY: Linear

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

```

201  Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Gln Pro Gly
202    1                      5                      10                      15
204  Glu Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
205                      20                      25                      30
207  Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
208                      35                      40                      45
210  Lys Trp Met Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
211                      50                      55                      60
213  Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Glu Thr Ser
214                      65                      70                      75
216  Ala Ser Thr Ala Tyr Leu Gln Ile Ser Asn Leu Lys Asn Asp Asp

```

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```

217          80          85          90
219 Thr Ala Thr Tyr Phe Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
220          95          100          105
222 Ser His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr
223          110          115          120
225 Val Ser Ser
228 (2) INFORMATION FOR SEQ ID NO: 10:
230 (i) SEQUENCE CHARACTERISTICS:
231 (A) LENGTH: 108 amino acids
232 (B) TYPE: Amino Acid
233 (D) TOPOLOGY: Linear
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
237 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu
238 1 5 10 15
240 Gly Asp Arg Val Ile Ile Ser Cys Ser Ala Ser Gln Asp Ile Ser
241 20 25 30
243 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys
244 35 40 45
246 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
247 50 55 60
249 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile
250 65 70 75
252 Ser Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
253 80 85 90
255 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu
256 95 100 105
258 Ile Lys Arg
261 (2) INFORMATION FOR SEQ ID NO: 11:
263 (i) SEQUENCE CHARACTERISTICS:
264 (A) LENGTH: 113 amino acids
265 (B) TYPE: Amino Acid
266 (D) TOPOLOGY: Linear
268 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
270 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
271 1 5 10 15
273 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
274 20 25 30
276 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
277 35 40 45
279 Glu Trp Val Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr
280 50 55 60
282 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
283 65 70 75
285 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
286 80 85 90
288 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Phe Asp Tyr Trp Gly Gln
289 95 100 105
291 Gly Thr Leu Val Thr Val Ser Ser
292 110

```

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294 (2) INFORMATION FOR SEQ ID NO: 12:

296 (i) SEQUENCE CHARACTERISTICS:

297 (A) LENGTH: 108 amino acids

298 (B) TYPE: Amino Acid

299 (D) TOPOLOGY: Linear

301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

```

303 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
304   1           5           10           15
306 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser
307           20           25           30
309 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
310           35           40           45
312 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser
313           50           55           60
315 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
316           65           70           75
318 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
319           80           85           90
321 Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
322           95          100          105
324 Ile Lys Arg

```

327 (2) INFORMATION FOR SEQ ID NO: 13:

329 (i) SEQUENCE CHARACTERISTICS:

330 (A) LENGTH: 107 amino acids

331 (B) TYPE: Amino Acid

332 (D) TOPOLOGY: Linear

334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

```

336 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
337   1           5           10           15
339 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
340           20           25           30
342 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
343           35           40           45
345 Leu Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
346           50           55           60
348 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
349           65           70           75
351 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
352           80           85           90
354 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
355           95          100          105
357 Ile Lys

```

360 (2) INFORMATION FOR SEQ ID NO: 14:

362 (i) SEQUENCE CHARACTERISTICS:

363 (A) LENGTH: 123 amino acids

364 (B) TYPE: Amino Acid

365 (D) TOPOLOGY: Linear

367 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

```

369 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/08/908,469

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Input Set : A:\P1093pl.txt

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L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119
L:2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:2520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125
L:2556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126
L:2592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127
L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131